

Abstracts

An RF Linear Modulation Circuit

G.F. Bock and B.L. Walsh. "An RF Linear Modulation Circuit." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 315-317.

This paper describes a linear FM modulation circuit. The modulation circuit and oscillator, which are in microstrip, exhibit exceptional slope linearity and group delay with no external frequency compensation over a deviation bandwidth of 2% of the RF frequency. The baseband frequency response of the modulator/oscillator is greater than dc to 150 MHz. This modulation circuit has been used with microstrip oscillators at 1.8 and 5 GHz.

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